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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/537,061		06/01/2005	Ira Pastan	4239-67287-05	2145
36218	7590	10/13/2006		EXAMINER	
KLARQUI 121 S.W. SA		KMAN, LLP	BLANCHARD, DAVID J		
SUITE #160		IREEI		ART UNIT	PAPER NUMBER
PORTLAND	O, OR 97	7204-2988		1643	

DATE MAILED: 10/13/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

· .	Application No.	Applicant(s)					
	10/537,061	PASTAN ET AL.					
Office Action Summary	Examiner	Art Unit					
	David J. Blanchard	1643					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filled after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1)⊠ Responsive to communication(s) filed on 01 J	une 2005:						
, ,	action is non-final.						
3) Since this application is in condition for allowa		prosecution as to the merits is					
* * * * * * * * * * * * * * * * * * * *	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4)⊠ Claim(s) <u>1-4,6-8,10-13 and 21-33</u> is/are pending in the application.							
• • • • • • • • • • • • • • • • • • • •	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.	, · · · · · · · · · · · · · · · · · · ·						
5)							
7) Claim(s) is/are objected to.							
• • • • • • • • • • • • • • • • • • • •	Claim(s) is/are objected to.  Claim(s) <u>1-4, 6-8, 10-13 and 21-33</u> are subject to restriction and/or election requirement.						
0) Claim(s) 1-4, 0-0, 10-13 and 21-33 are subject	to restriction and/or election re	equilibrium.					
Application Papers							
9) The specification is objected to by the Examine	er.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
12)  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) ☐ All b) ☐ Some * c) ☐ None of:							
1. ☐ Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in Application 146.							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)							
1) Notice of References Cited (PTO-892)	4) Interview Summa						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application							
Paper No(s)/Mail Date 6) Other:							

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## DETAILED ACTION

## Election/Restrictions

1. Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions, which are not so linked as to form a single general inventive concept under PCT Rule 13.1. To have a general inventive concept under PCT rule 13.1, the inventions need to be linked by a special technical feature. The special technical feature recited in claim 1 is an isolated disulfide Fy protein that specifically binds the epitope bound by monoclonal antibody 8H9 conjugated to a toxin. In view of this Modak et al (Cancer Research, 61:4048-4054, May 15, 2001, IDS filed 6/1/2005) in view of Robinson et al (U.S. Patent 5,618,920, issued 4/8/1997) and Kreitman et al (Clinical Cancer Research, 6:1476-1487, April 2000) reads on the claim. Modak et al teach the hybridoma that produces murine monoclonal antibody 8H9 that recognizes a tumor-associated antigen expressed on the cell membranes of a broad spectrum of tumors with restricted distribution on normal tissues (see entire document) and Robinson et al teach Fv derived from a known antibody (see columns 12-22), determination of nucleic acids encoding VH and VL of any known antibody and use of said VH and VL to produce Fv (see column 1-45, and columns 12-22), and according to Robinson et al, "The invention also produces consensus sequences and specific oligonucleotide sequences useful as probes for hybridization and priming cDNA synthesis of any hybridoma mRNA coding for variable regions of any desired specificity." (see column 4, last paragraph) and Kreitman et al. teach immunotoxins comprising a disulfide stabilized Fv of a monoclonal antibody

conjugated to a toxin for tumor therapy (see entire document, particularly pg. 918, 1<sup>st</sup> col., and pp. 924-926 and abstract). Thus, it would have been *prima facie* obvious to one of ordinary skill in the art at the time the invention was made to use the method of Robinson et al to obtain the nucleic acids encoding the VH and the VL from the 8H9 hybridoma taught by Modak et al to produce an 8H9 disulfide stabilized Fv-toxin for immunotherapy in tumor patients. Therefore, the technical feature recited in claim 1 is not special. Accordingly the groups are not so linked as to form a single general concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in response to this action, to elect a single invention to which the claims must be restricted.

Group I, claims 1-4, 6-8, 10-13 and 21-23, drawn to a disulfide stabilized Fv-toxin that binds the epitope bound by monoclonal antibody 8H9, and a pharmaceutical composition comprising the Fv-toxin.

Group III, claims 24-33, drawn to a method of killing a tumor cell and treating a tumor in a subject comprising administering a disulfide stabilized Fv-toxin that binds the epitope bound by monoclonal antibody 8H9.

2. The inventions listed as Groups I-IV do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: As set forth above,

in view of the teachings of Modak et al and Robinson et al and Chowdhury et al the groups are not so linked as to form a single general concept under PCT Rule 13.1 because the technical feature of claim 1 is not special.

Inventions I and II are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case the antibody of Group I can be used in a materially different method such as to purify the antigen in addition to the materially different therapeutic method of Group II.

- 3. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter and different searches in the patent literature, restriction for examination purposes as indicated is proper.
- 4. The examiner has required restriction between product and process claims. Where applicant elects claims directed to the product, and a product claim is subsequently found allowable, withdrawn process claims that depend from or otherwise include all the limitations of the allowable product claim will be rejoined in accordance with the provisions of MPEP § 821.04. Process claims that depend from or otherwise include all the limitations of the patentable product will be entered as a matter of right if the amendment is presented prior to final rejection or allowance, whichever is earlier. Amendments submitted after final rejection

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are governed by 37 CFR 1.116; amendments submitted after allowance are governed by 37 CFR 1.312.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103, and 112. Until an elected product claim is found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowed product claim will not be rejoined. See "Guidance on Treatment of Product and Process Claims in light of *In re Ochiai, In re Brouwer* and 35 U.S.C. § 103(b)," 1184 O.G. 86 (March 26, 1996). Additionally, in order to retain the right to rejoinder in accordance with the above policy, Applicant is advised that the process claims should be amended during prosecution either to maintain dependency on the product claims or to otherwise include the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder.

Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to David J. Blanchard whose telephone number is (571) 272-0827. The examiner can normally be reached at Monday through Friday from 8:00

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AM to 6:00 PM, with alternate Fridays off. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Larry Helms, can be reached at (571) 272-0832. The official fax number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <a href="http://pair-direct.uspto.gov">http://pair-direct.uspto.gov</a>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Respectfully,

David J. Blanchard

571-272-0827